

Title (en)

Key switch mechanism with membrane actuator.

Title (de)

Tastenschaltermechanismus mit Membranbetätigungsglied.

Title (fr)

Mécanisme de commutateur à touche avec organe de commande à membrane.

Publication

**EP 0395561 B1 19950628 (EN)**

Application

**EP 90480052 A 19900327**

Priority

US 34506889 A 19890428

Abstract (en)

[origin: EP0395561A2] A switch activator is described which is a unitary molded plastic molded coil spring (22) and a pivot plate (16) which pivots to act on a membrane switch (18) when the coil spring buckles under load. The buckling of the spring is controlled by the relative placement of the axis of the spring and a pivot surface around which the top portion of the spring pivots as the spring buckles. The cross section of the spring member is limited in size so as to prevent the forming of a solid column upon compression, while at the same time accommodating the needs for molten plastic flow in the spring during molding.

IPC 1-7

**H01H 13/70**; **H01H 13/14**

IPC 8 full level

**H01H 13/30** (2006.01); **H01H 13/705** (2006.01)

CPC (source: EP US)

**H01H 13/705** (2013.01 - EP US); **H01H 2229/044** (2013.01 - EP US); **H01H 2235/012** (2013.01 - EP US)

Cited by

US6205650B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**US 4931606 A 19900605**; AR 244906 A1 19931130; BR 9001337 A 19910402; CA 2009246 A1 19901028; CA 2009246 C 19940726; DE 69020427 D1 19950803; DE 69020427 T2 19960307; EP 0395561 A2 19901031; EP 0395561 A3 19910306; EP 0395561 B1 19950628; JP H0362426 A 19910318

DOCDB simple family (application)

**US 34506889 A 19890428**; AR 31670190 A 19900424; BR 9001337 A 19900322; CA 2009246 A 19900202; DE 69020427 T 19900327; EP 90480052 A 19900327; JP 11493090 A 19900428